



Type Examination Certificate

No. C5AUK 022629 0068 Rev. 00

Holder of Certificate: **Karl Dungs GmbH & Co. KG**
Karl-Dungs-Platz 1
73660 Urbach
GERMANY

Product: **Fittings (Gas)**
Multifunctional controls

MB- ... 4... B..

The Approved Body of TUV SUD BAPT Unlimited confirms according to the Gas Appliances (Enforcement) and Miscellaneous Amendment Regulations, UKSI 2018:389 (as amended by UKSI 2019:696), that in the conformity assessment procedure in accordance with Article 14 the listed product has been assessed in a type examination (module B - production type) and complies with the relevant provisions according to Annex I on appliances burning gaseous fuels. It refers only to the sample submitted for testing and certification and on its technical documentation. See also notes overleaf.

Test report no.: V-M 1723-00/22

Valid until: 2032-08-17

Date, 2022-08-19

(Johannes Steiglechner)



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Model(s):	MB- DLE 405 B01 S.. (S20, S22, S23, S50, S52) MB- D 405 B01 S.. (S20, S22, S50, S52) MB- LE 405 B01 S.. (S20, S22, S23, S50, S52) MB- 405 B01 S.. (S20, S22, S50, S52) MB- DLE 405 B02 S.. (S00, S02) MB- D 405 B02 S.. (S00, S02) MB- LE 405 B02 S.. (S00, S02) MB- 405 B02 S.. (S00, S02) MB- DLE 405 B07 S.. (S22, S52, B07-1 S52) MB- D 405 B07 S.. (S22, S52, B07-1 S52) MB- LE 405 B07 S.. (S22, S52, B07-1 S52) MB- 405 B07 S.. (S22, S52, B07-1 S52) MB- ZRDLE 405 B01 S.. (S20, S22, S50, S52) MB- ZRD 405 B01 S.. (S20, S22, S50, S52) MB- ZRLE 405 B01 S.. (S20, S22, S50, S52) MB- ZR 405 B01 S.. (S20, S22, S50, S52) MB- ZRDLE 405 B02 S.. (S00, S02) MB- ZRD 405 B02 S.. (S00, S02) MB- ZRLE 405 B02 S.. (S00, S02) MB- ZR 405 B02 S.. (S00, S02) MB- ZRDLE 405 B07 S.. (S22, S52) MB- ZRD 405 B07 S.. (S22, S52) MB- ZRLE 405 B07 S.. (S22, S52) MB- ZR 405 B07 S.. (S22, S52) MB- DLE 407 B01 S.. (S20, S22, S50, S52) MB- D 407 B01 S.. (S20, S22, S50, S52) MB- LE 407 B01 S.. (S20, S22, S50, S52) MB- 407 B01 S.. (S20, S22, S50, S52) MB- DLE 407 B02 S.. (S00, S02) MB- D 407 B02 S.. (S00, S02) MB- LE 407 B02 S.. (S00, S02) MB- 407 B02 S.. (S00, S02) MB- DLE 407 B07 S.. (S22, S52, B07-1 S52) MB- D 407 B07 S.. (S22, S52, B07-1 S52) MB- LE 407 B07 S.. (S22, S52, B07-1 S52) MB- 407 B07 S.. (S22, S52, B07-1 S52) MB- ZRDLE 407 B01 S.. (S20, S22, S50, S52) MB- ZRD 407 B01 S.. (S20, S22, S50, S52) MB- ZRLE 407 B01 S.. (S20, S22, S50, S52) MB- ZR 407 B01 S.. (S20, S22, S50, S52) MB- ZRDLE 407 B02 S.. (S00, S02) MB- ZRD 407 B02 S.. (S00, S02) MB- ZRLE 407 B02 S.. (S00, S02)
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Approved Body according to Regulation (EU) 2016/426 and the Gas Appliances (Enforcement) and Miscellaneous Amendments Regulations 2018 with identification No. 0168.



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- MB- ZR 407 B02 S.. (S00, S02)
- MB- ZRDLE 407 B07 S.. (S22, S52)
- MB- ZRD 407 B07 S.. (S22, S52)
- MB- ZRLE 407 B07 S.. (S22, S52)
- MB- ZR 407 B07 S.. (S22, S52)
- MB- DLE 410 B01 S.. (S20, S22, S50, S52)
- MB- D 410 B01 S.. (S20, S22, S50, S52)
- MB- LE 410 B01 S.. (S20, S22, S50, S52)
- MB- 410 B01 S.. (S20, S22, S50, S52)
- MB- DLE 410 B02 S.. (S00, S02)
- MB- D 410 B02 S.. (S00, S02)
- MB- LE 410 B02 S.. (S00, S02)
- MB- 410 B02 S.. (S00, S02)
- MB- DLE 410 B07 S.. (S22, S52, B07-1 S52)
- MB- D 410 B07 S.. (S22, S52, B07-1 S52)
- MB- LE 410 B07 S.. (S22, S52, B07-1 S52)
- MB- 410 B07 S.. (S22, S52, B07-1 S52)
- MB- ZRDLE 410 B01 S.. (S20, S22, S50, S52)
- MB- ZRD 410 B01 S.. (S20, S22, S50, S52)
- MB- ZRLE 410 B01 S.. (S20, S22, S50, S52)
- MB- ZR 410 B01 S.. (S20, S22, S50, S52)
- MB- ZRDLE 410 B02 S.. (S00, S02)
- MB- ZRD 410 B02 S.. (S00, S02)
- MB- ZRLE 410 B02 S.. (S00, S02)
- MB- ZR 410 B02 S.. (S00, S02)
- MB- ZRDLE 410 B07 S.. (S22, S52)
- MB- ZRD 410 B07 S.. (S22, S52)
- MB- ZRLE 410 B07 S.. (S22, S52)
- MB- ZR 410 B07 S.. (S22, S52)
- MB- DLE 412 B01 S.. (S20, S22, S50, S52)
- MB- D 412 B01 S.. (S20, S22, S50, S52)
- MB- LE 412 B01 S.. (S20, S22, S50, S52)
- MB- 412 B01 S.. (S20, S22, S50, S52)
- MB- DLE 412 B02 S.. (S00, S02)
- MB- D 412 B02 S.. (S00, S02)
- MB- LE 412 B02 S.. (S00, S02)
- MB- 412 B02 S.. (S00, S02)
- MB- DLE 412 B07 S.. (S22, S52, B07-1 S52)
- MB- D 412 B07 S.. (S22, S52, B07-1 S52)
- MB- LE 412 B07 S.. (S22, S52, B07-1 S52)
- MB- 412 B07 S.. (S22, S52, B07-1 S52)
- MB- ZRDLE 412 B01 S.. (S20, S22, S50, S52)
- MB- ZRD 412 B01 S.. (S20, S22, S50, S52)

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- MB- ZRLE 412 B01 S.. (S20, S22, S50, S52)
- MB- ZR 412 B01 S.. (S20, S22, S50, S52)
- MB- ZRDLE 412 B02 S.. (S00, S02)
- MB- ZRD 412 B02 S.. (S00, S02)
- MB- ZRLE 412 B02 S.. (S00, S02)
- MB- ZR 412 B02 S.. (S00, S02)
- MB- ZRDLE 412 B07 S.. (S22, S52)
- MB- ZRD 412 B07 S.. (S22, S52)
- MB- ZRLE 412 B07 S.. (S22, S52)
- MB- ZR 412 B07 S.. (S22, S52)
- MB- DLE 415 B01 S.. (S20, S22, S50, S52)
- MB- D 415 B01 S.. (S20, S22, S50, S52)
- MB- LE 415 B01 S.. (S20, S22, S50, S52)
- MB- 415 B01 S.. (S20, S22, S50, S52)
- MB- ZRDLE 415 B01 S.. (S20, S22, S50, S52)
- MB- ZRD 415 B01 S.. (S20, S22, S50, S52)
- MB- ZRLE 415 B01 S.. (S20, S22, S50, S52)
- MB- ZR 415 B01 S.. (S20, S22, S50, S52)
- MB- DLE 420 B01 S.. (S20, S22, S50, S52)
- MB- D 420 B01 S.. (S20, S22, S50, S52)
- MB- LE 420 B01 S.. (S20, S22, S50, S52)
- MB- 420 B01 S.. (S20, S22, S50, S52)
- MB- ZRDLE 420 B01 S.. (S20, S22, S50, S52)
- MB- ZRD 420 B01 S.. (S20, S22, S50, S52)
- MB- ZRLE 420 B01 S.. (S20, S22, S50, S52)
- MB- ZR 420 B01 S.. (S20, S22, S50, S52)

The functions are defined as follows:

- B01 : two automatic shut-off valves, pressure regulator,
- B02 : two automatic shut-off valves, no pressure regulator,
- B07 : same as B01 with internal bypass valve
- B07-1 : same as B01 with bypass valve with external connection



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Features of the automatic shut-off valves:

models	V2	adjustable opening time	main flow restrictor
MB- 4...,	single-stage	no	no
MB- D 4...,	single-stage	no	yes
MB- LE 4...,	single-stage	yes	no
MB- DLE 4...	single-stage	yes	yes
MB- ZR 4...,	two-stage	no	no
MB- ZRD 4...,	two-stage	no	yes
MB- ZRLE 4...,	two-stage	yes	no
MB- ZRDLE 4...	two-stage	yes	yes

The pressure regulator and the activation of the valves are marked as follows:

valves are marked as follows:

- S00: without pressure regulator, valves actuated together
- S02: without pressure regulator, separate actuated valves
- S20: outlet pressure range 4 to 20 mbar, valves actuated together
- S23: same as S20 with additional plug-in flow restrictor
- S22: outlet pressure range 4 to 20 mbar, separate actuated valves
- S50: outlet pressure range 4 to 50 mbar, valves actuated together
- S52: outlet pressure range 4 to 50 mbar, separate actuated valves

Technical data / range of application

gas family	all gases of 1 st , 2 nd and 3 rd gas family
valve class acc. to DIN EN 161	A
regulator class acc. to DIN EN 88-1	A
group according to DIN EN 13611	2
max. operating pressure	360 mbar / 36 kPa
range of regulator	4 – 20 mbar / 0,4 – 2 kPa or 4 – 50 mbar / 0,4 – 5 kPa
ambient temperature	-15°C to +70°C
installation position	actuator in vertical to horizontal position
electrical data	
all models:	AC 230 V or AC 220 – 230 V; 50 – 60 Hz; IP 54



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Further rated voltages:

MB 405 B01 S20	AC 100 V, AC 110 V, AC 200 V
MB-DLE 405 B01 S20	AC 110 V, AC 200 V
MB-ZRDLE 405 B01 S20	AC 100 V, AC 110 V, AC 200 V
MB-D 407 B01 S20	AC 110 V, AC 200 V
MB 412 B01 S20	AC 100 V, AC 110 V, AC 200 V
MB-DLE 412 B01 S20	AC 110 V, AC 200 V
MB-ZRDLE 412 B01 S20	AC 100 V, AC 110 V, AC 200 V
MB 415 B01 S20	AC 110 V, AC 200 V
MB-DLE 415 B01 S20, S50	AC 100 V, AC 110 V, AC 200 V
MB 420 B01 S20	AC 110 V, AC 200 V
MB-DLE 420 B01 S20, S50	AC 100 V, AC 110 V, AC 200 V

Tested according to: **DIN EN 126:2012**
DIN EN 161:2013
DIN EN 88-1:2016
DIN EN 13611:2011